Listing of the Claims

- (Previously presented) A method of screening compounds suspected of being skin irritants, comprising:
 - a) providing
 - a compound suspected of being a skin irritant;
 - a skin equivalent comprising a irritant responsive reporter gene construct, wherein said construct comprises a promoter from an irritant responsive gene operably linked to a reporter gene; and
 - b) contacting said skin equivalent with said compound; and
 - measuring the level of gene expression from said reporter gene construct, wherein increased expression from said reporter gene construct is indicative of a response to said irritant.
- (Original) The method of Claim 1, wherein said human skin equivalent has a surface electrical capacitance of from about 80 to about 120 pF.
- (Original) The method of Claim 1, wherein the content of ceramides 5, 6, and 7 in said skin equivalent is from about 20 to about 50% of total ceramide content.
- (Original) The method of Claim 1, wherein the content of ceramide 2 in said skin equivalent is from about 10 to about 40% of total ceramide content.
- (Original) The method of Claim 1, wherein said skin equivalent comprises keratinocytes selected from the group consisting of primary keratinocytes and immortalized keratinocytes.

Attorney Docket No.: STRATA-06948

- (Original) The method of Claim 5, wherein said immortalized keratinocytes are NIKS cells.
- (Original) The method of Claim 1, wherein said keratinocytes express heterologous Kruppel-like factor 4.
- 8. (Previously presented) The method of Claim 1, wherein said irritant responsive reporter gene construct comprises a promoter selected from the group consisting of interleukin-8 and interleukin-1 α promoters.

9 - 24. (Canceled)